

IN THE CLAIMS:

Please cancel claims 1-20 without prejudice, and substitute the following new claims:

-- 21. An ultrasonic surgical system capable of use with a plurality of different hand-held surgical devices, each having an ultrasonic transducer incorporated therein, and having first and second associated control switches, the system including:

a main unit comprised of:

a driver for the ultrasonic transducers in the surgical devices;

a first signal output device which couples an output signal from the driver to a connected surgical device;

a first signal input device;

a manipulation signal sensing device connected to the first signal input device; and

a control unit which is responsive to an output from the manipulation signal sensing device, and which controls the operation of the driver; and

an extension unit comprised of:

a second signal input device for receiving a control signal from the first control switch associated with a connected surgical unit;

a third signal input device for receiving a control signal from the second control switch associated with a connected surgical unit;

a manipulation signal generator which generates the manipulation signal when a control switch connected to either the second or the third signal input device is operated; and

a second signal output device which couples the manipulation signal to the first signal input device.

22. The ultrasonic surgical system described in claim 21, in which the extension unit is further comprised of:

a fourth signal input device which receives the driver output signal through the first signal output device;

5 a plurality of third signal output devices which selectively couple the driver output signal to the ultrasonic transducers in surgical devices respectively connected thereto;

B1 a selector device having an input connected to the fourth signal input device and a plurality of outputs respectively connected to the third signal output devices; and

10 a control circuit which cooperates with the selector device to selectively couple the driver output signal to one of the third signal output devices.

23. The ultrasonic surgical system described in claim 22, further including a remote control device connected to the control circuit in the extension unit for controlling the operation thereof.

24. The ultrasonic surgical system described in claim 23, in which the remote control device is a switch having a fourth signal output device which cooperates with the second signal input device to form a releasable electrical connector.

25. The ultrasonic surgical system described in claim 23, in which the remote control device is a dedicated selection switch having a signal output device which cooperates with a fifth signal input device in the extension unit to form a releasable electrical connector.

26. The ultrasonic surgical system described in claim 23, in which the remote control device is a switch having a signal output device which cooperates with a further signal input device to form a freely releasable electrical connector.

27. The ultrasonic surgical system described in claim 23, in which the remote control device is the first control switch.

28. The ultrasonic surgical system described in claim 23, in which the first control switch is a manually operated device releasably attached to a hand-held surgical device.

29. The ultrasonic surgical system described in claim 23, in which the first control switch is a manually operated device incorporated into an operating unit of a hand-held surgical device.

30. The ultrasonic surgical system described in claim 23, further comprising a reporting unit which generates a distinctive sound indicating which of the plurality of third signal output devices has been selected to receive the driver output signal from the selector device.

31. The ultrasonic surgical system described in claim 22, in which the selector device control circuit includes a plurality of manual switches respectively associated with each of the third output devices, and in which activation of one of the manual switches determines to which of the third output devices the driver output signal is coupled.

32. The ultrasonic surgical system described in claim 22, in which the selector device control circuit is responsive to a signal at either the second or the third input device to select the third output device to which the driver output signal is coupled.

33. The ultrasonic surgical system described in claim 22, in which each signal input device cooperates with an associated signal output device to form a freely releasable electrical connector.

34. The ultrasonic surgical system described in claim 22, in which the first control switch is a manually operated device releasably attached to a hand-held surgical device.

35. The ultrasonic surgical system described in claim 22, in which the first control switch is a manually operated device incorporated into an operating unit of a hand-held surgical device.

36. The ultrasonic surgical system described in claim 22, further comprising a reporting unit which generates a distinctive sound indicating which of the plurality of third signal output devices has been selected to receive the driver output signal from the selector device.

37. The ultrasonic surgical system described in claim 22, further including:
a first auxiliary perfusing unit which supplies a fluid to a perfusion/suction ultrasonic surgical device through a fluid supply tube;

a second auxiliary suction unit which removes waste matter from a site at which treatment is being performed by the perfusion/suction surgical device through a suction tube; and

a control unit for operating the driver and at least one of the auxiliary units together when the perfusion/suction surgical device is in use.

38. The ultrasonic surgical system described in claim 21, in which each signal input device cooperates with an associated signal output device to form a freely releasable electrical connector.

39. The ultrasonic surgical system described in claim 21, in which the first control switch is a manually operated device releasably attached to a hand-held surgical device.

40. The ultrasonic surgical system described in claim 21, in which the first control switch is a manually operated device incorporated into an operating unit of a hand-held surgical device.